

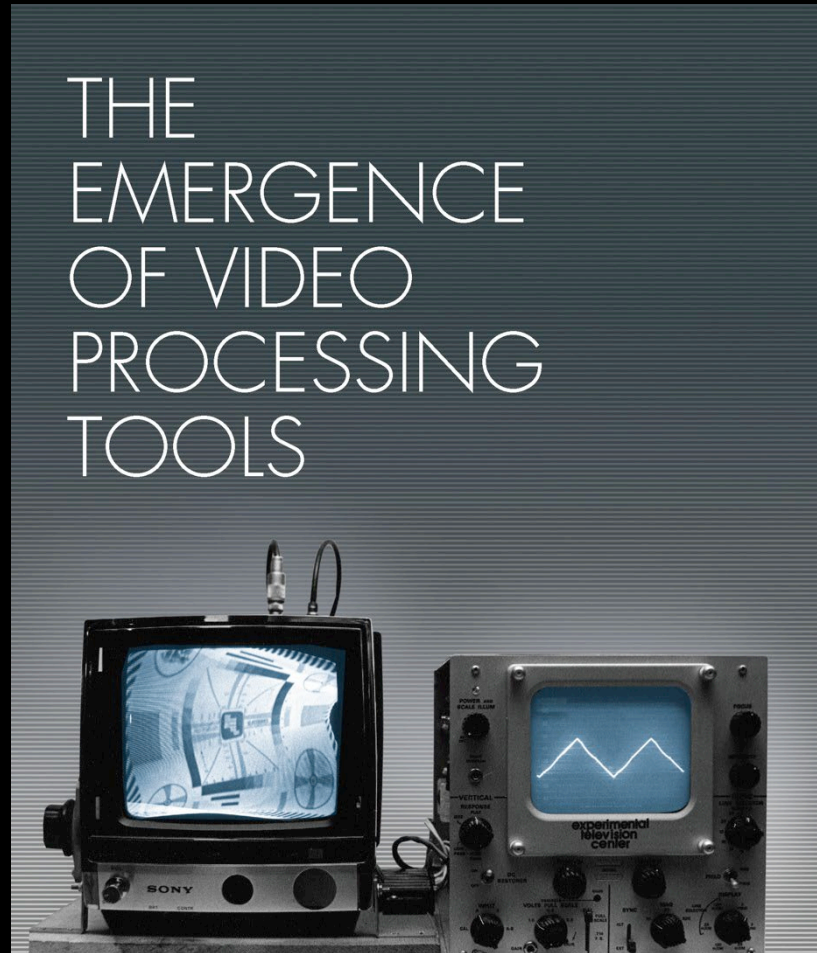
Manipulating Art and Living Systems

Kathy High
high@rpi.edu



The Emergence of Video Processing Tools: Television Becoming Unglued,

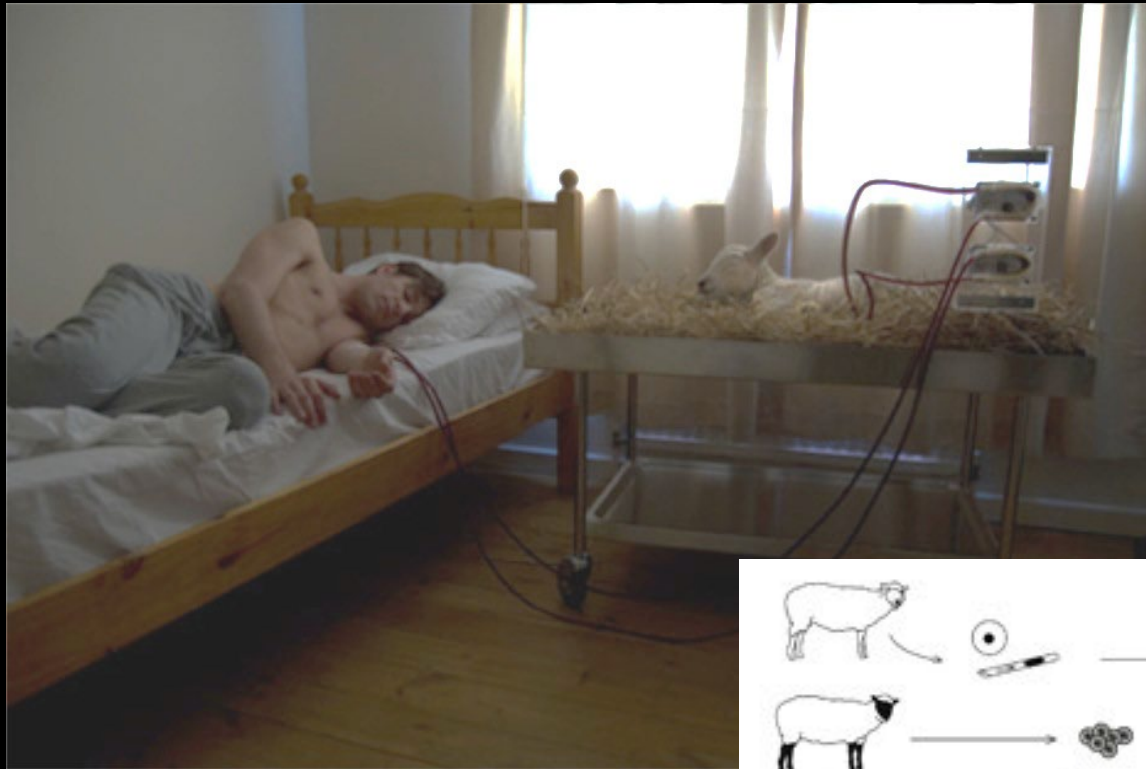
Edited by Kathy High, Sherry Miller Hocking and Mona Jimenez



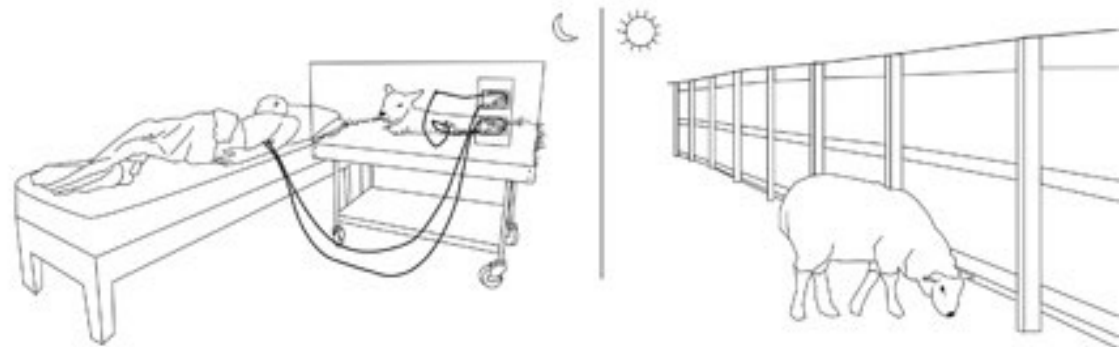
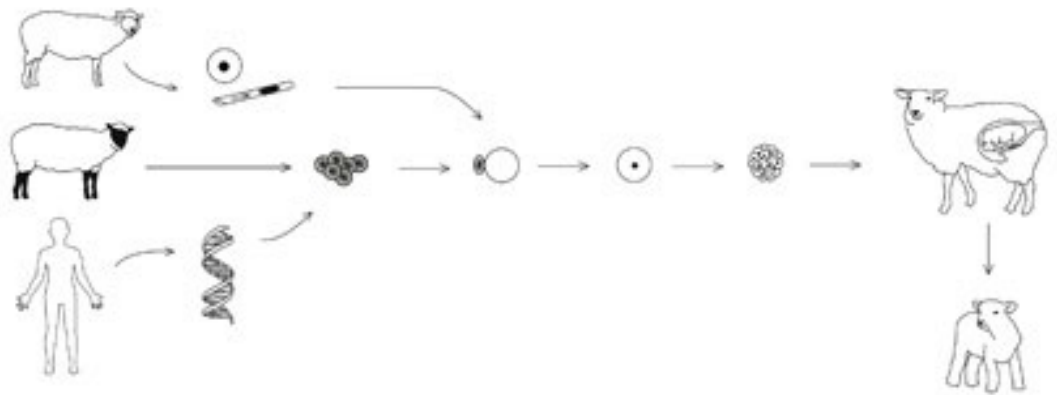
TELEVISION BECOMING UNGLUED

Edited by KATHY HIGH, SHERRY MILLER HOCKING and MONA JIMENEZ

Speculative Design



Revital Cohen
LIFE SUPPORT, 2006-08





Revital Cohen
LIFE SUPPORT



Speculative Sculpture



Patricia Piccinini – The Young Family 2002-3



An Ecosystem of Excess, Pinar Yoldas, 2014

Photos by Julia Zimmerman

Documenting science practices



Catherine Chalmers – Genetically Engineered Mice
Blind Sterile



Catherine Chalmers – Genetically Engineered Mice

Obese

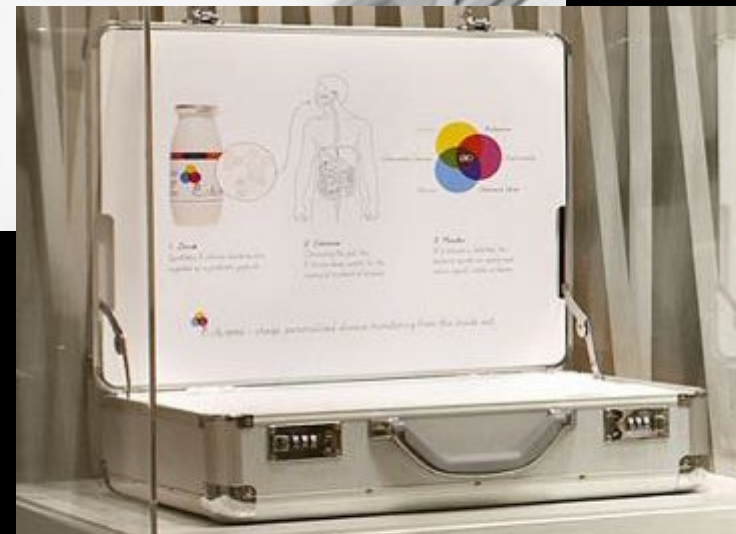


Catherine Chalmers – Genetically Engineered Mice
Rhino



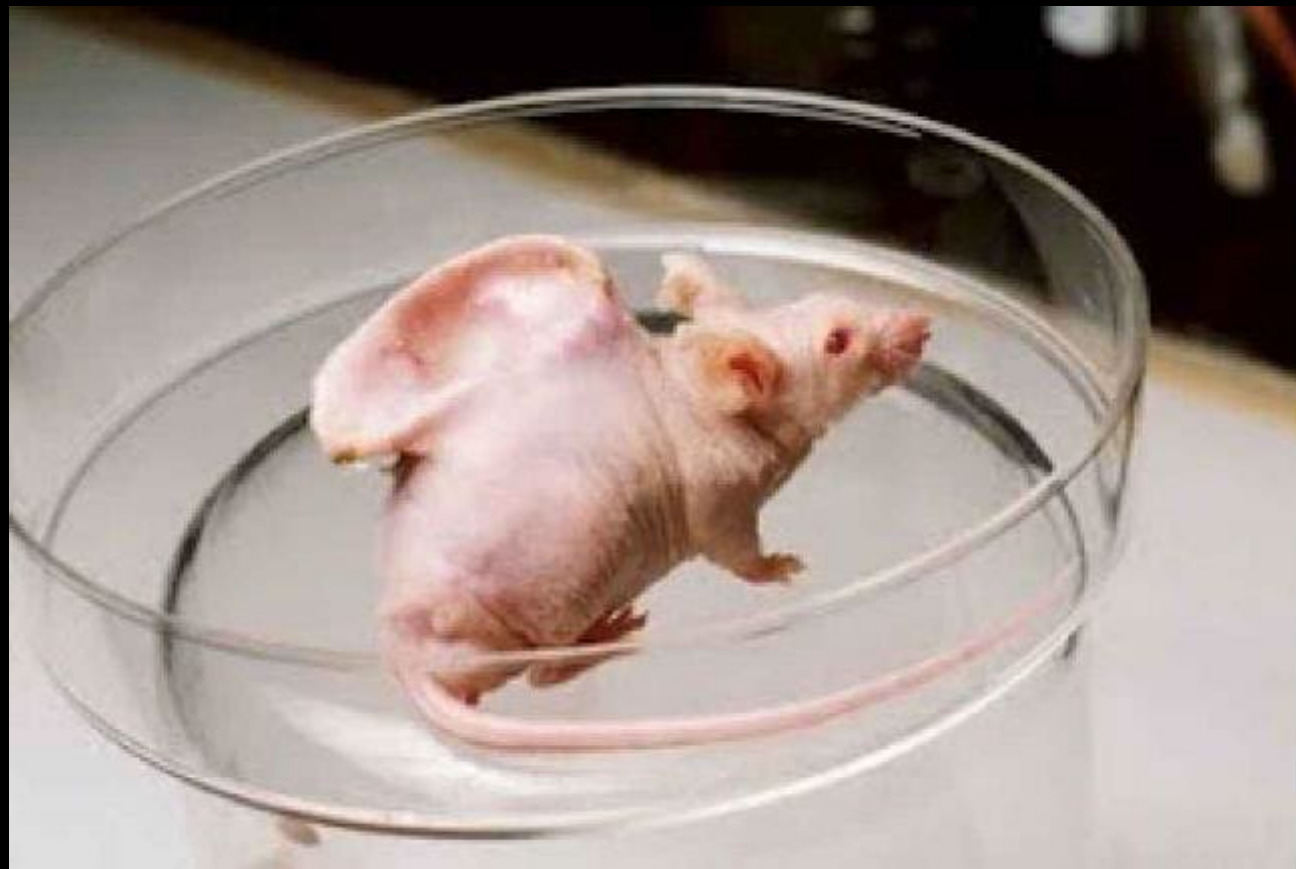
Catherine Chalmers – Genetically Engineered Mice
Downs Syndrome

*Synthetic Biology –
Synthetic Aesthetics*



***E. chromi*, Alexandra Daisy Ginsberg & James King,
and iGEM team, 2009**

*Manipulating Life and the art that
comes from manipulation*



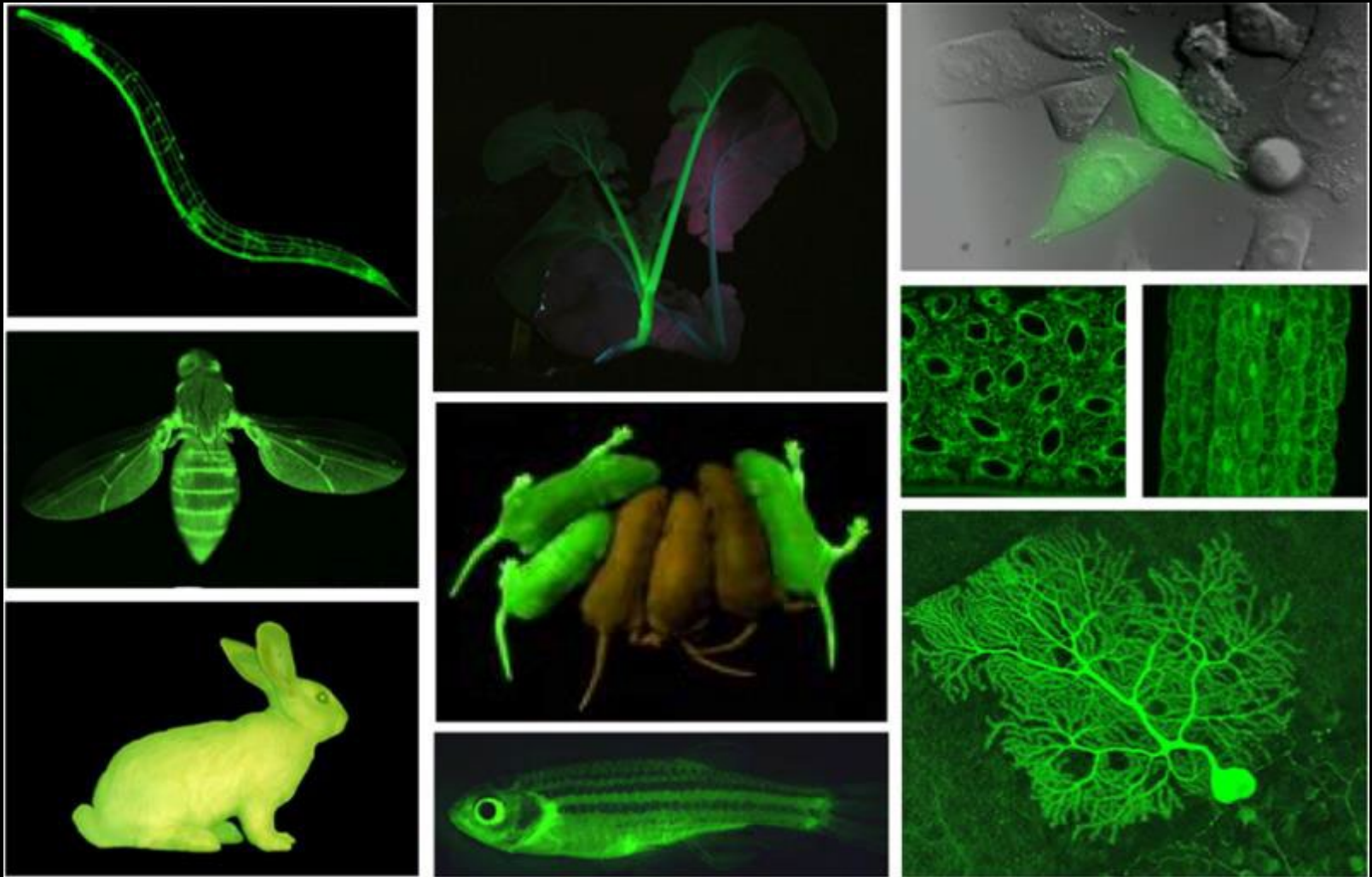
Charles and Jay Vacanti's "earmouse," from 1997



Eduardo Kac – *Alba*, 2000



Eduardo Kac and Alba, GFP Bunny



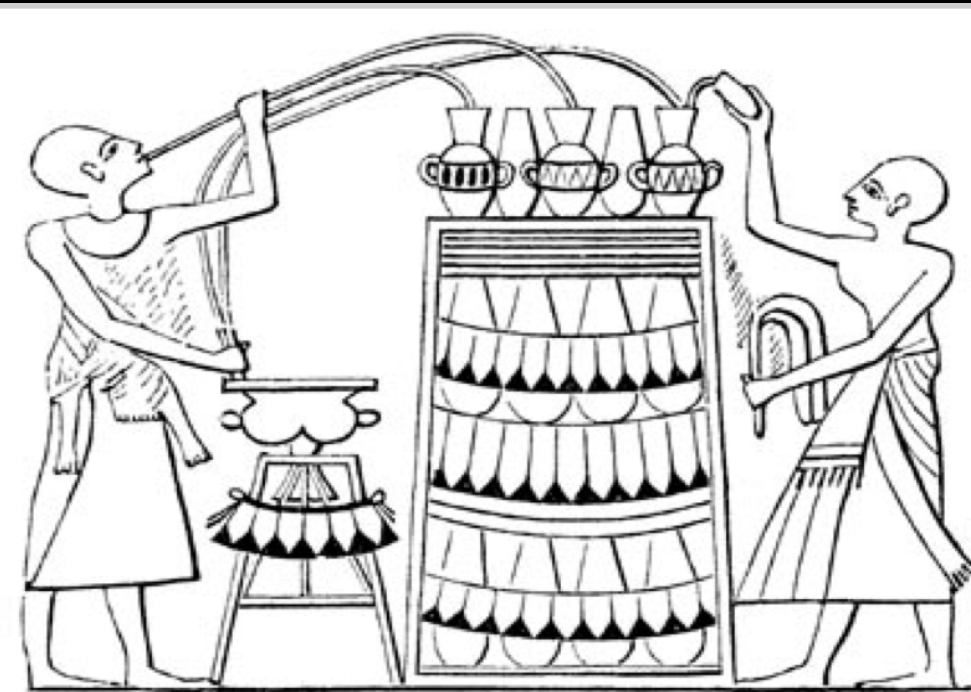
Chalfie M PNAS 2009;106:10073-10080

Gene Fluorescent Protein - GFP

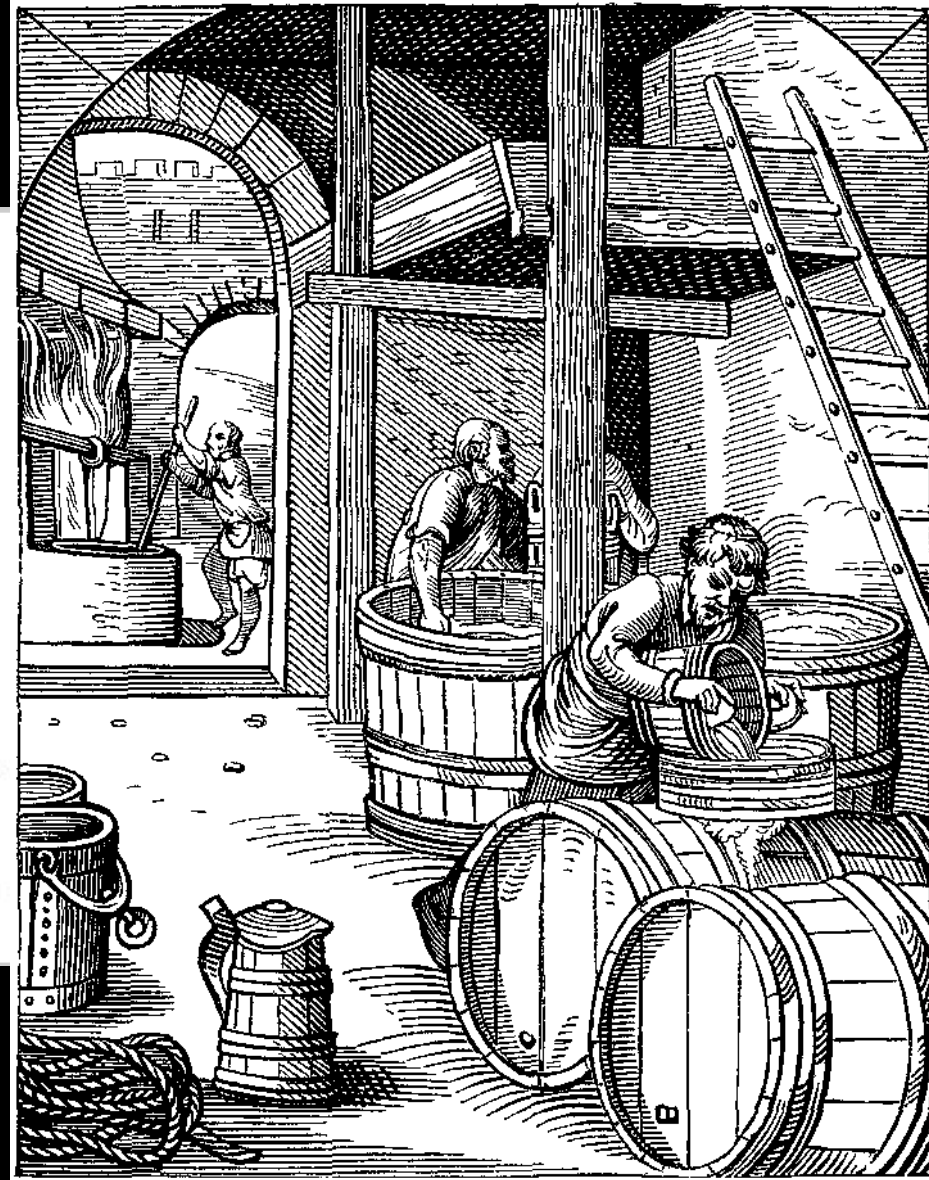
PNAS

Biotechnology

Beer fermentation



siphons used in the year 1450 B.C.

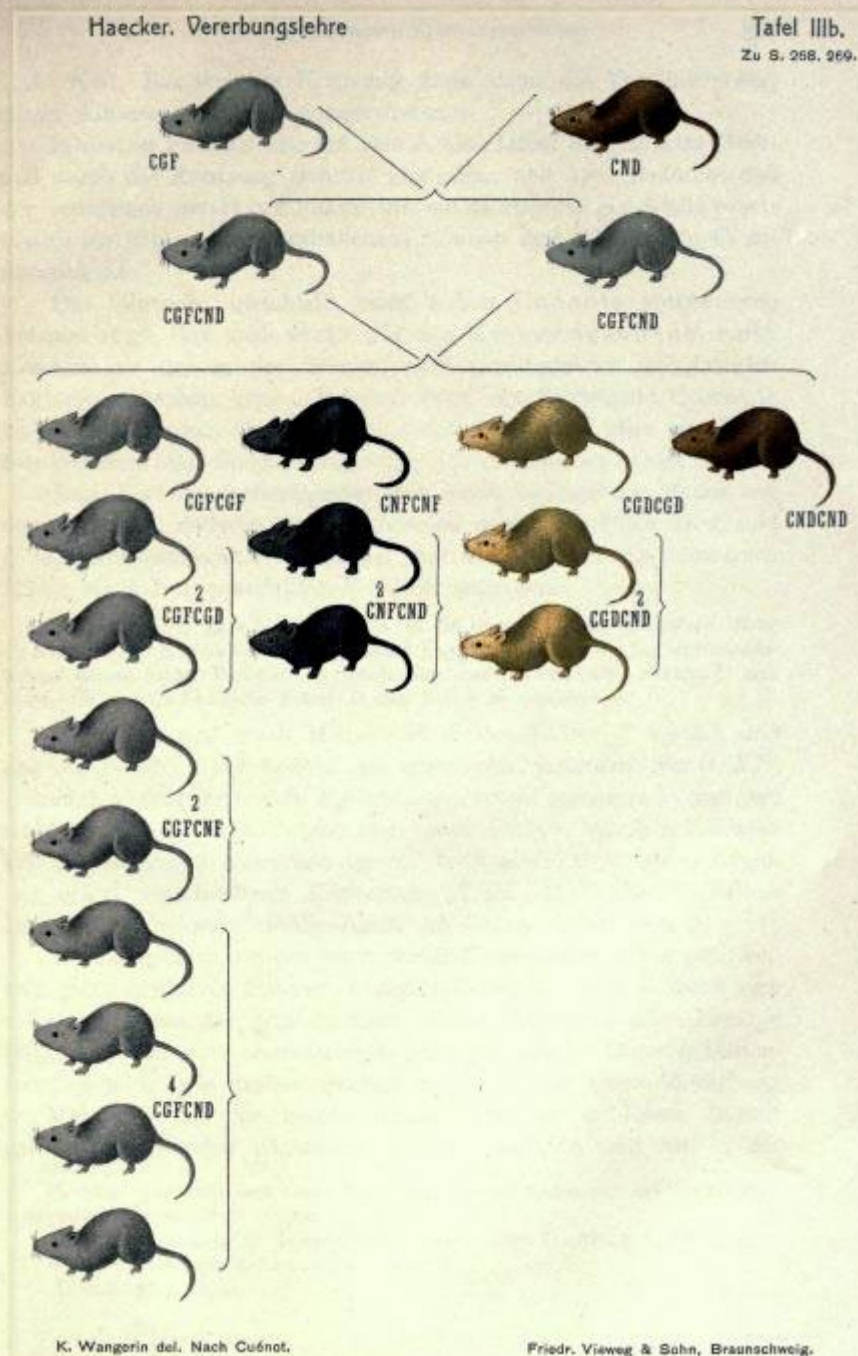


Chaim Weizmann – grandfather of industrial fermentation practices of making acetone WWI and plexiglass (aka Lucite, Perspex) in WWII –



"zymotechnology" = "biotechnology"

Species selection





Installation view of the exhibition, Edward Steichen's Delphiniums. 1936. The Museum of Modern Art, NYC.



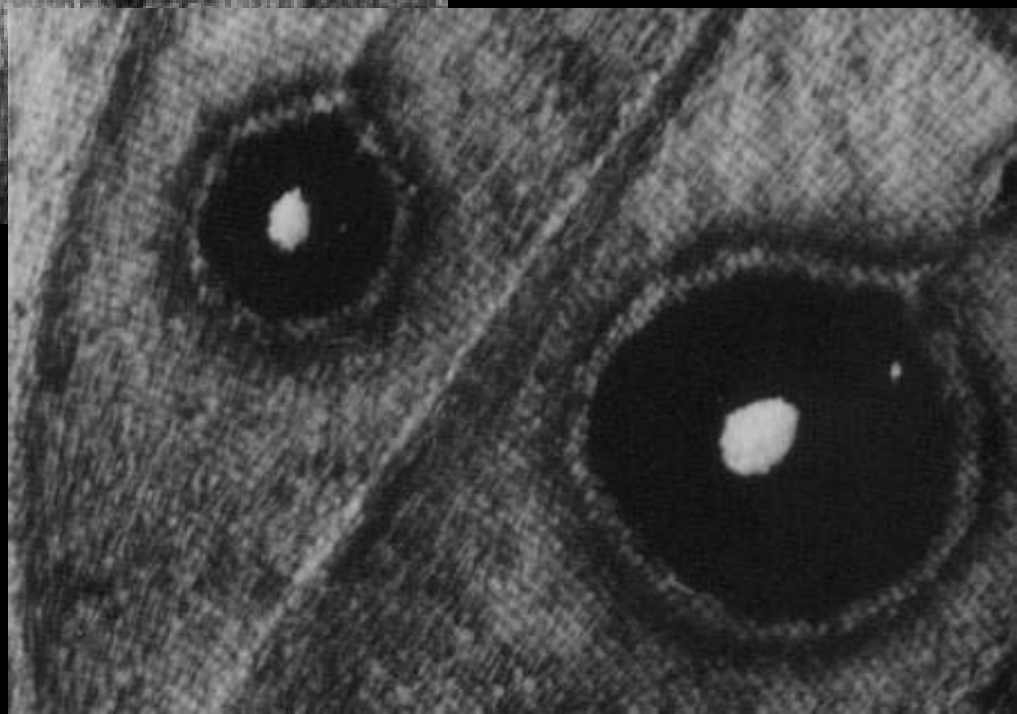
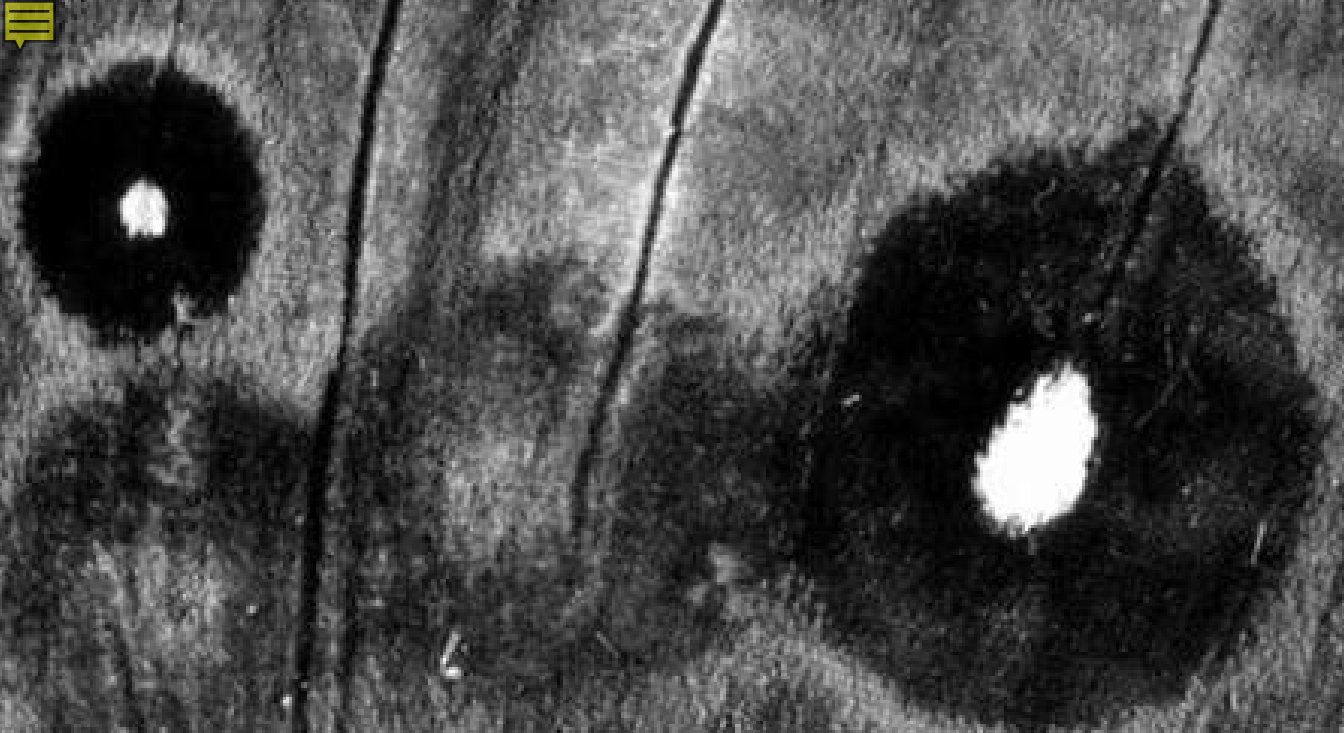
Selective breeding





Marta de Menezes. *Nature?* 1999-2000





The Cosmopolitan Chicken project

Koen Vanmechelen



<http://www.koenvanmechelen.be/content/view/114/88889030/lang,en/>

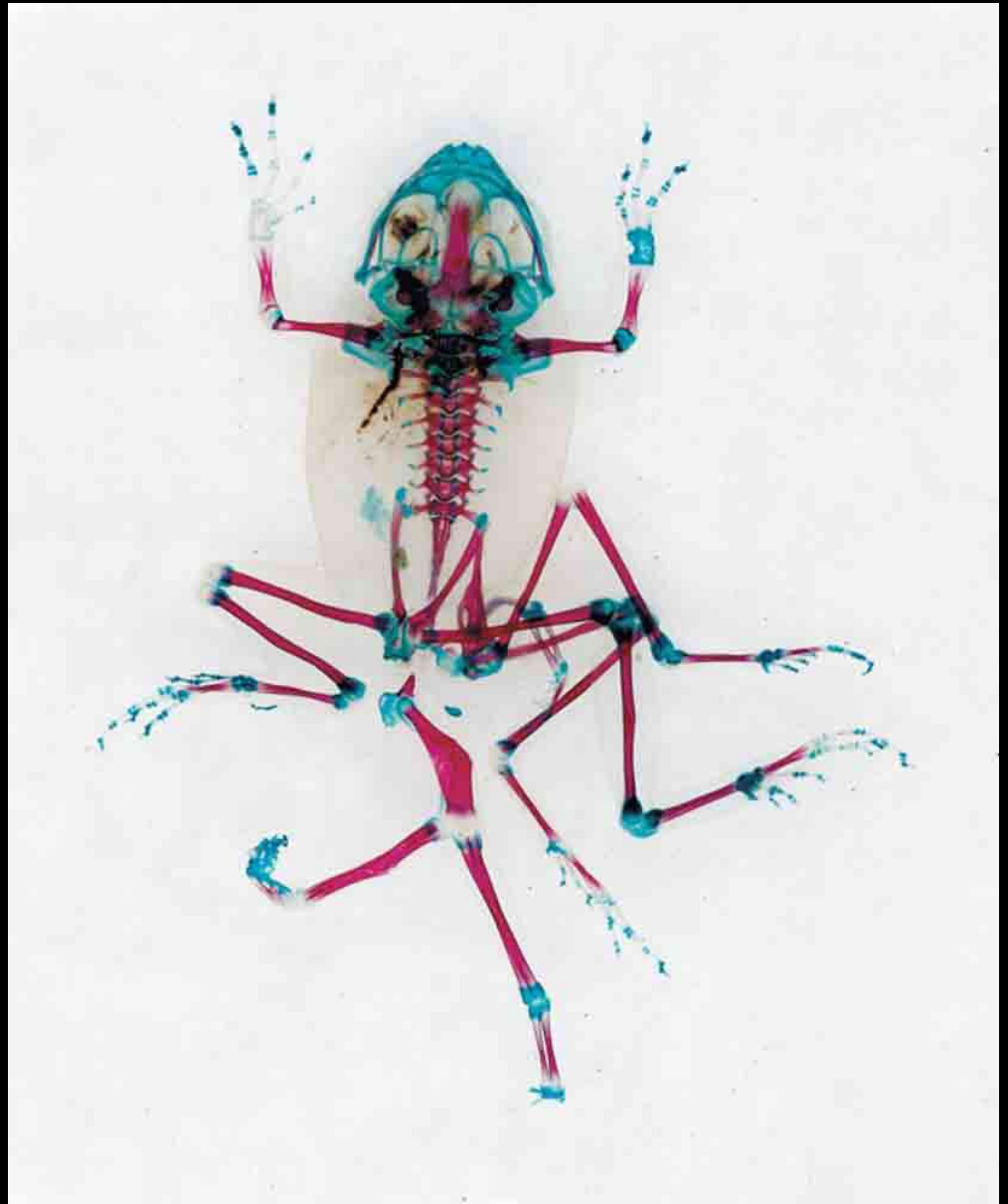


The Cosmopolitan Chicken project

Koen Vanmechelen



Brandon Ballengée



DFA 23, Khárôn, Unique scanner photographic print of cleared and stained multi-limbed Pacific Treefrog

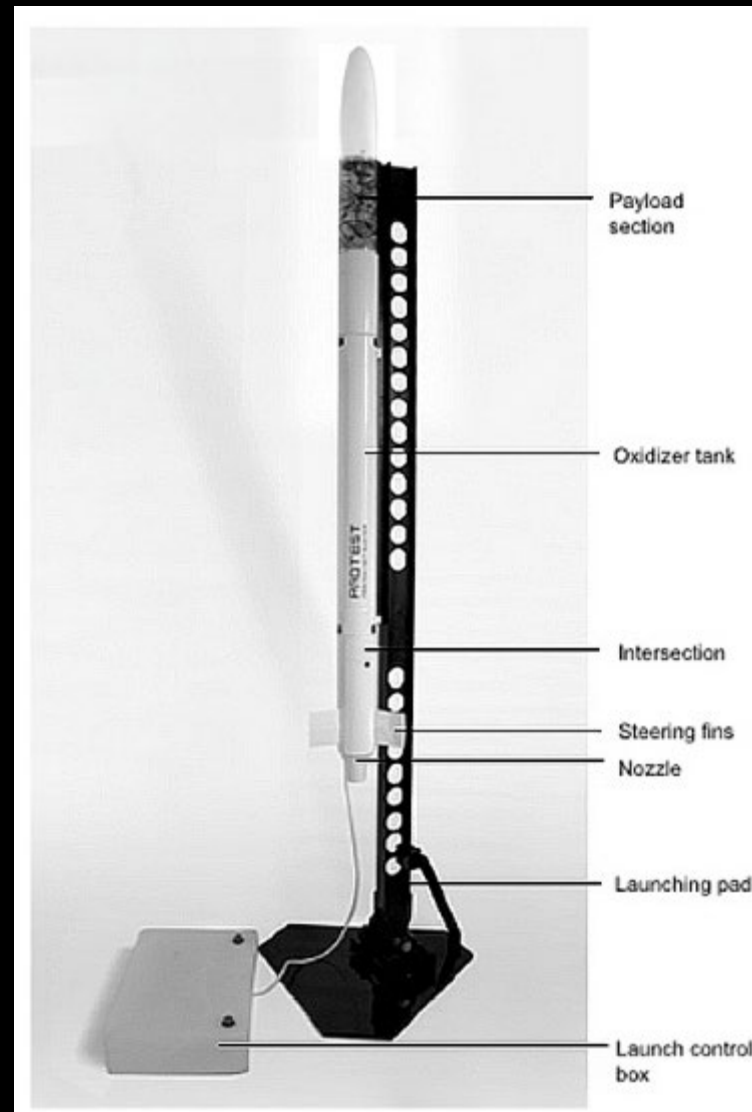
The Case of the Deviant Toad

Brandon Ballengée



Citizen scientists





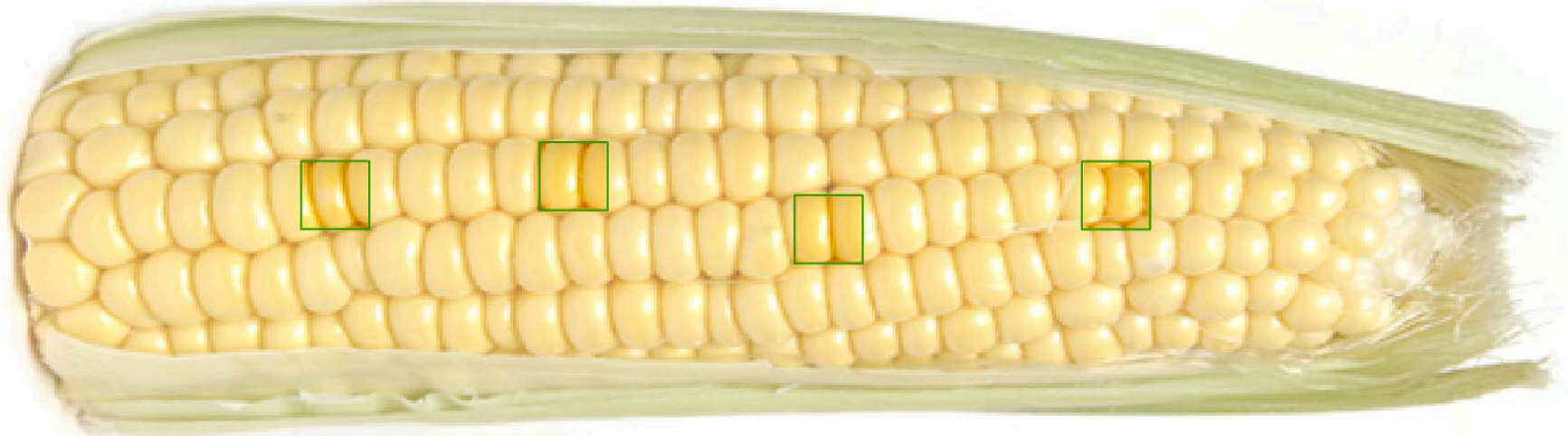
Heath Bunting



Heath Bunting, *Super Weed*

Free Range Grain

A project by Critical Art Ensemble, Beatriz da Costa, and Shyh-shiun Shyu

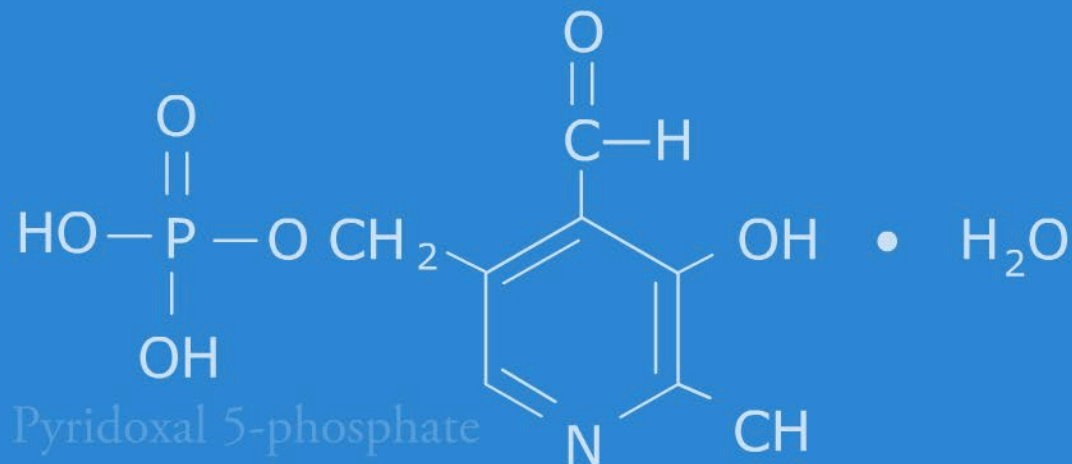


Free Range Grain
Critical Art Ensemble, 2003-04

Critical Art Ensemble

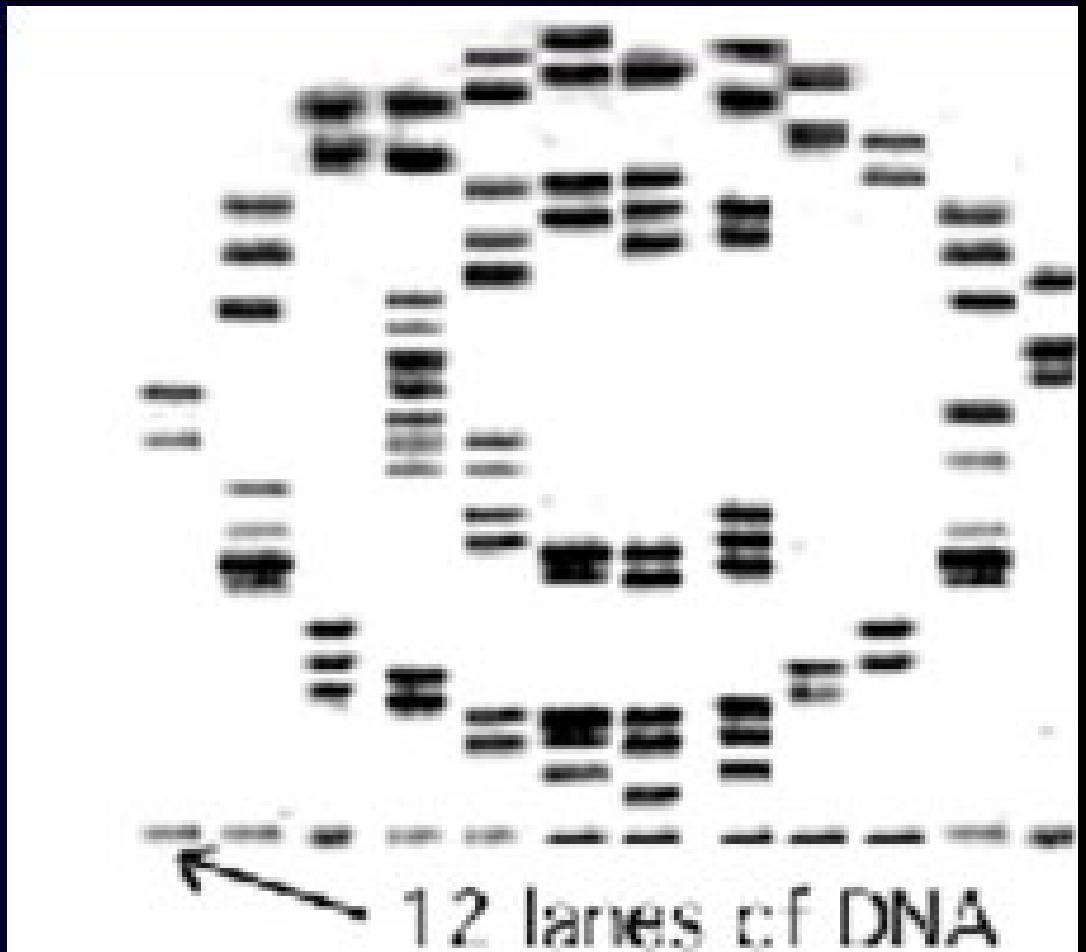
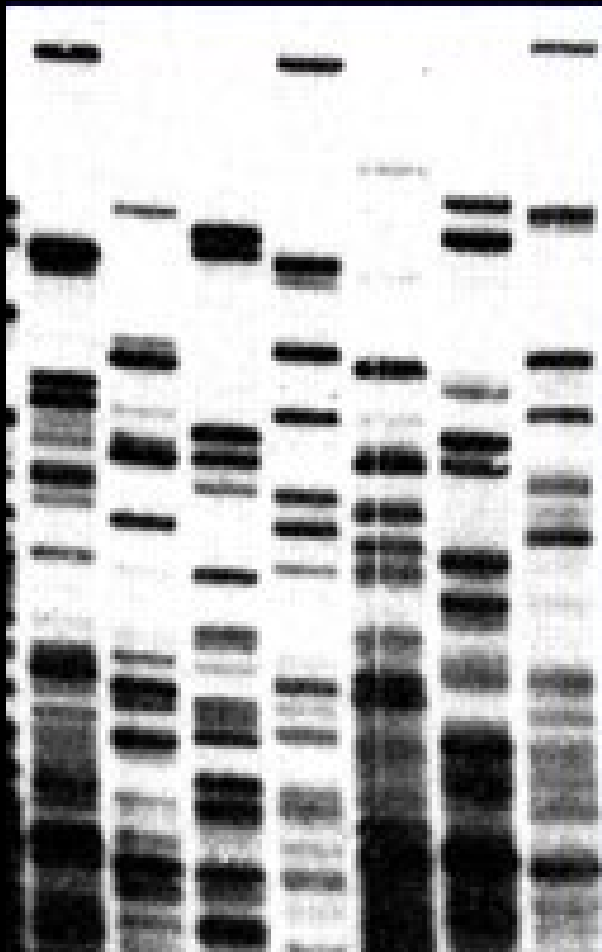
Contestational Biology

Pyridoxal 5-phosphate:
methyl)-4-pyridinecarboxaldehyde
Synonyms: 3-Hydroxy-2-methyl-5-[(phosphonoxy)]
Pyridoxal-5-phosphoric acid
Codecarboxylase
Molecular Formula: C₈H₁₀NO₆P
Molecular Weight: 247.1
CAS Number: 41468-25-1
MDL Number: MFCD00006333
Purity Grade: Minimum 98%
Quality Application: Enzyme cofactor.
Normal coenzyme form of Vitamin B6
Form Aspect: Off-white to tan crystals.
Assay Display: Minimum 98%
Storage Temp: Store below 0°C.



What Contestational Biologists Want
Why Public Experimentation
What is Contestational Biology?
Fuzzy Biological Sabotage
Pranks
Selective Engineering
Precision Targeting
Delivery Systems
Disrupting New Product Development





The first DNA "Fingerprint".
From Jeffreys, Wilson (Nature,
1985).

Latent Figure Protocol, Paul Vanouse 2005

video



Stranger Visions, Heather Dewey Hagborg, 2012

8/1/12

Manu Sporny

<https://github.com/msporny/dna>

Maternal Haplogroup: M6a Asian, likely Indian

Earwax: Wet

Malaria Resistance: None

Eye Color: 56% chance brown eyes, 37% chance of green eyes

Crypts: Typical

Iris Furrows: Typical

Pigmentation Rings: Typical

Hair Color: 5x Decreased odds of blonde hair

Hair Wave: Curlier

Baldness: Typical

Weight: Typical

Skin Color: Typical

Freckling: Typical



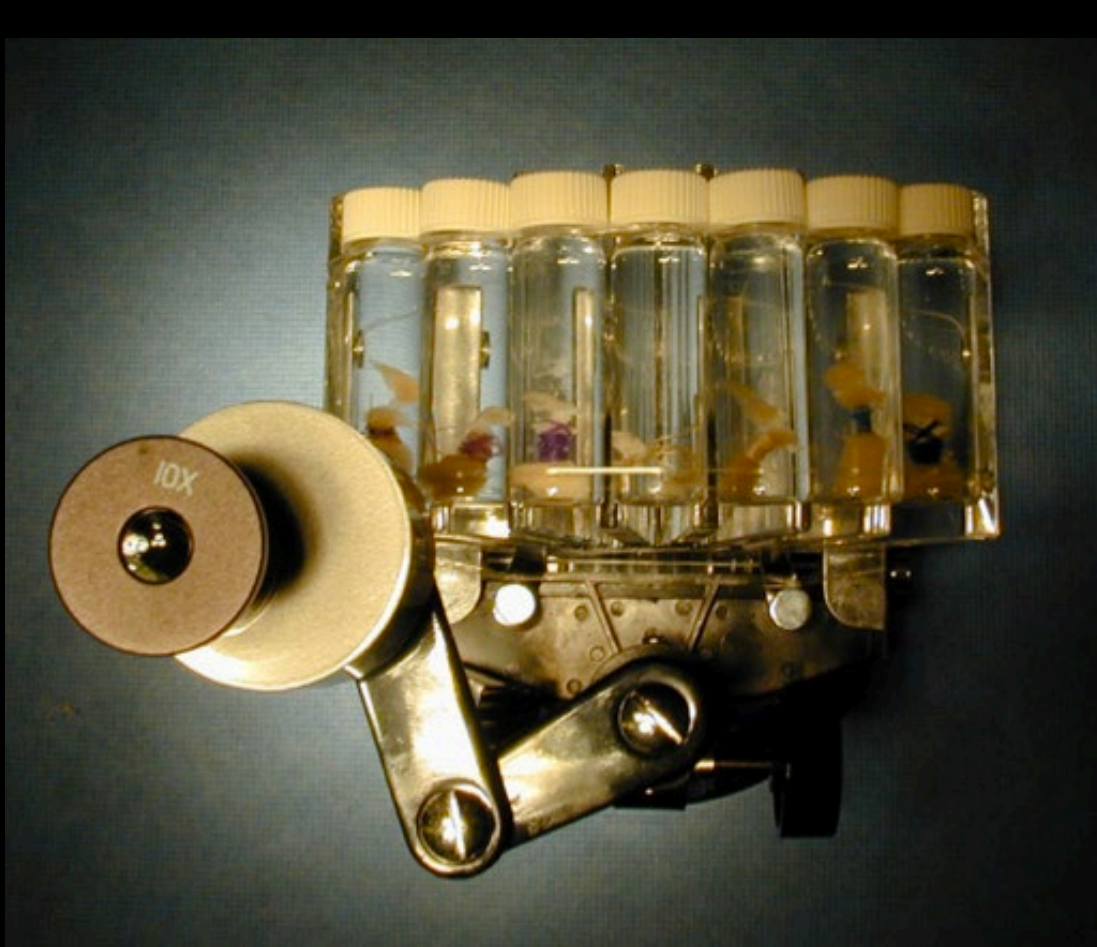
Invisible, Heather Dewey Hagborg, 2014

Be invisible.





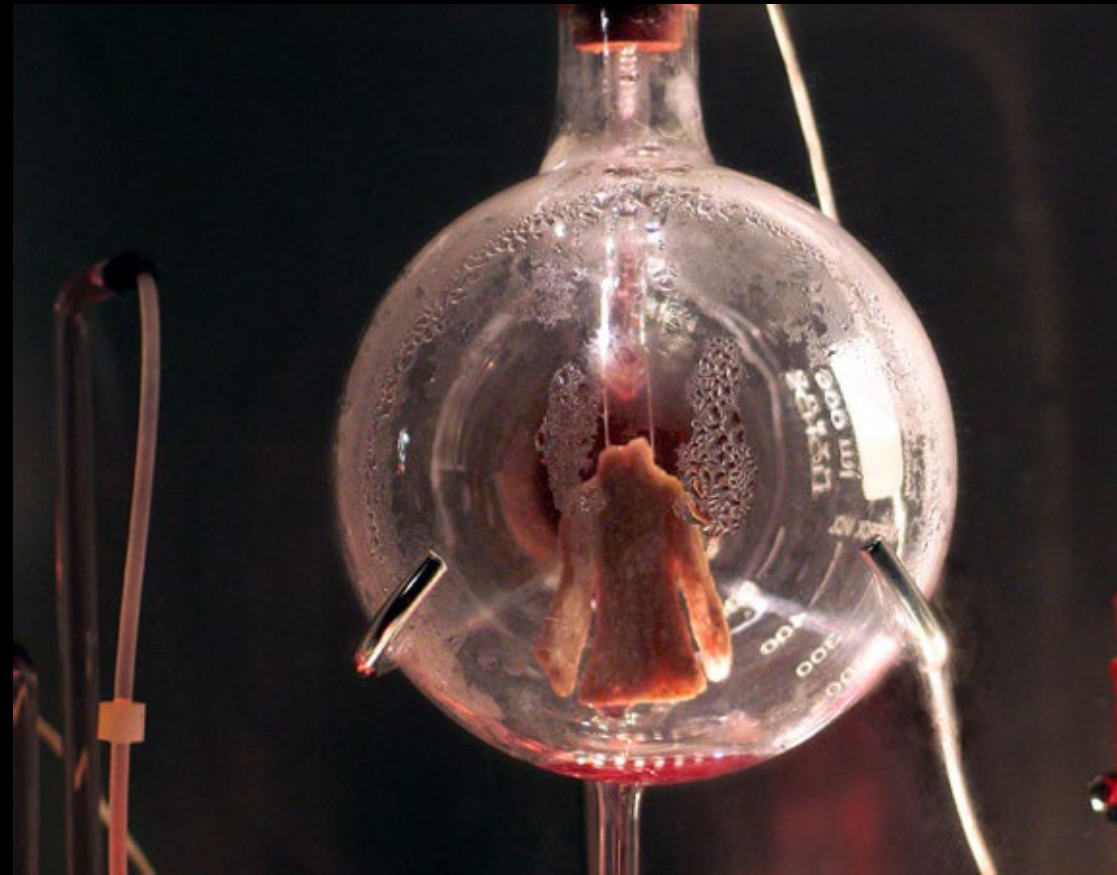
Tissue Culture and Art, Ionat Zurr and Oron Catts



Tissue Culture and Art, *Semi-Living Worry Dolls*, 2000



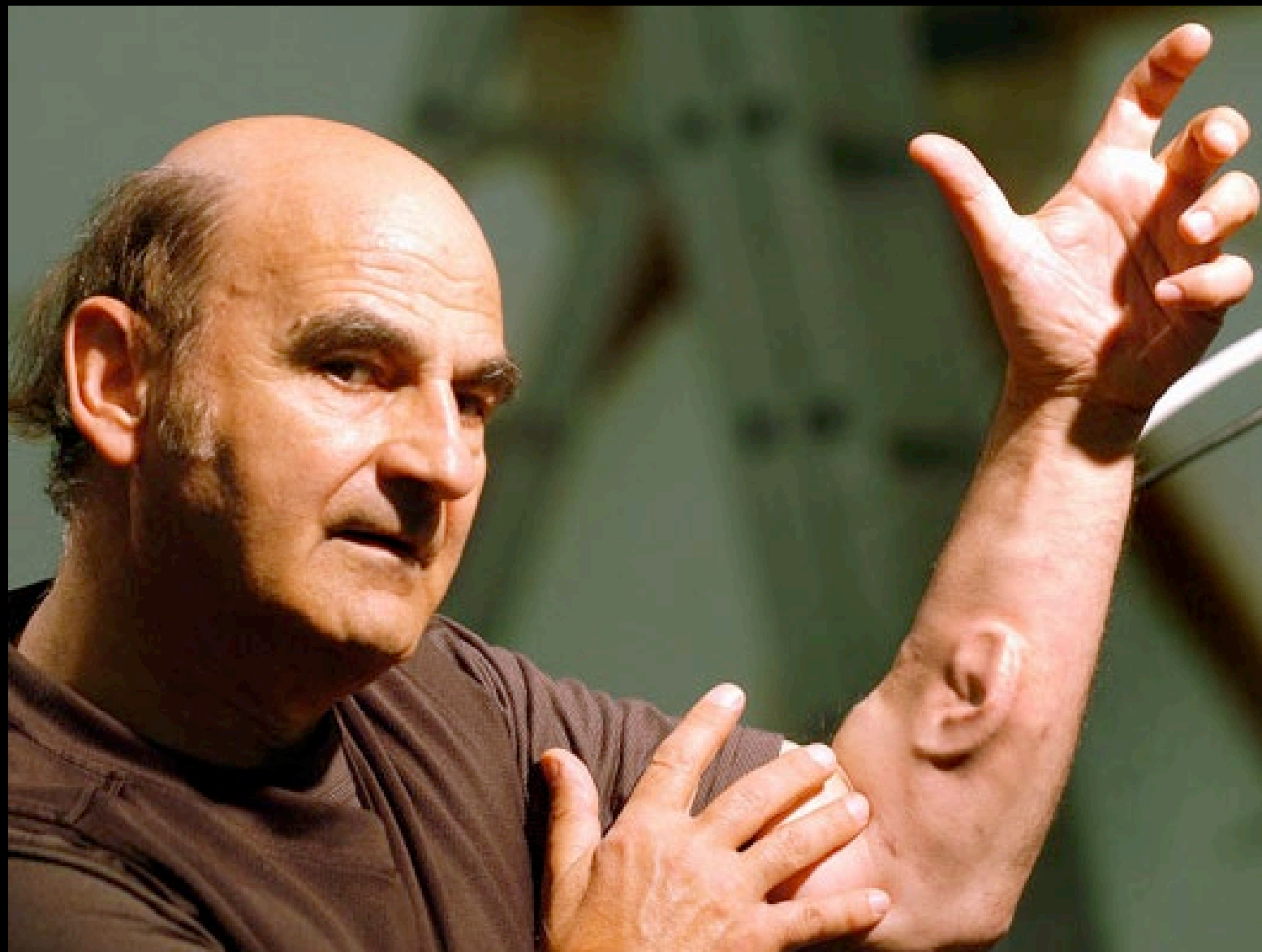
TCA's *Victimless Leather*





TCA and Stelarc's Ear





Stelarc *Third Ear*



Trans-Rat Products

MASS MoCA, *Becoming Animal* Exhibition
Embracing Animal installation, 2005-06



OncoMouse™ is my sibling, and more properly, male or female, s/he is my sister. Her essence is to be a mammal, a bearer by definition of mammary glands, and a site for the operation of a transplanted, human, tumor-producing gene -- an oncogene -- that reliably produces breast cancer.

Above all, OncoMouse™ is the first patented animal in the world. By definition, then, in the practices of materialized refiguration, s/he is an invention...

Donna J. Haraway. *Modest_Witness@Second_Millennium*.



Rat hero



Rat Hero, Echo



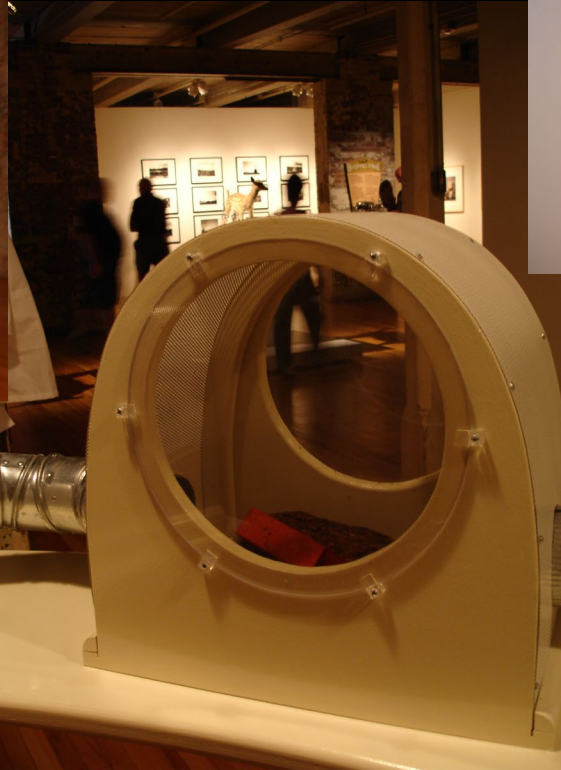
Rat history

Helen Dean King, Wistar Institute





Embracing Animal installation, extended animal housing





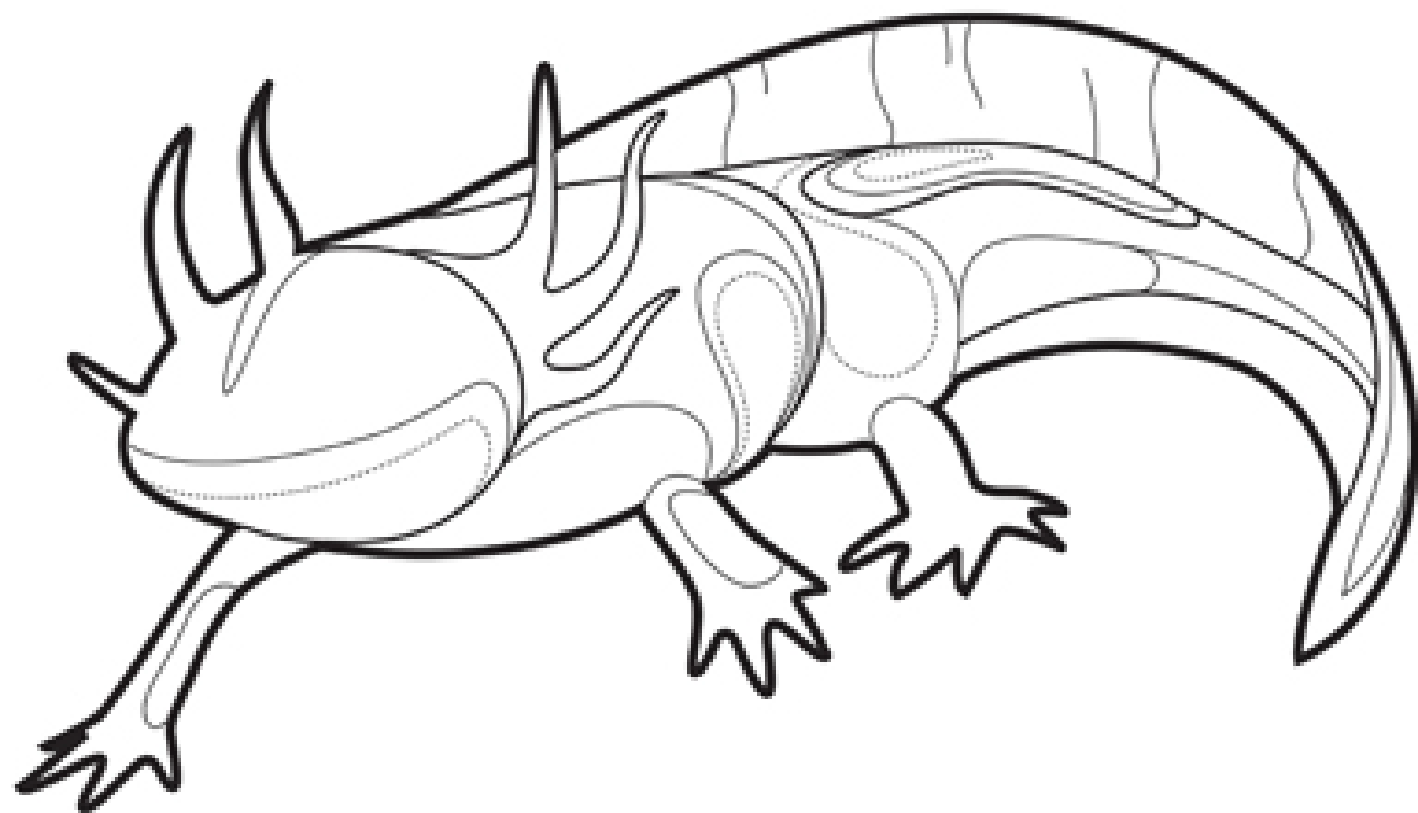
Politics of Empathy + Care



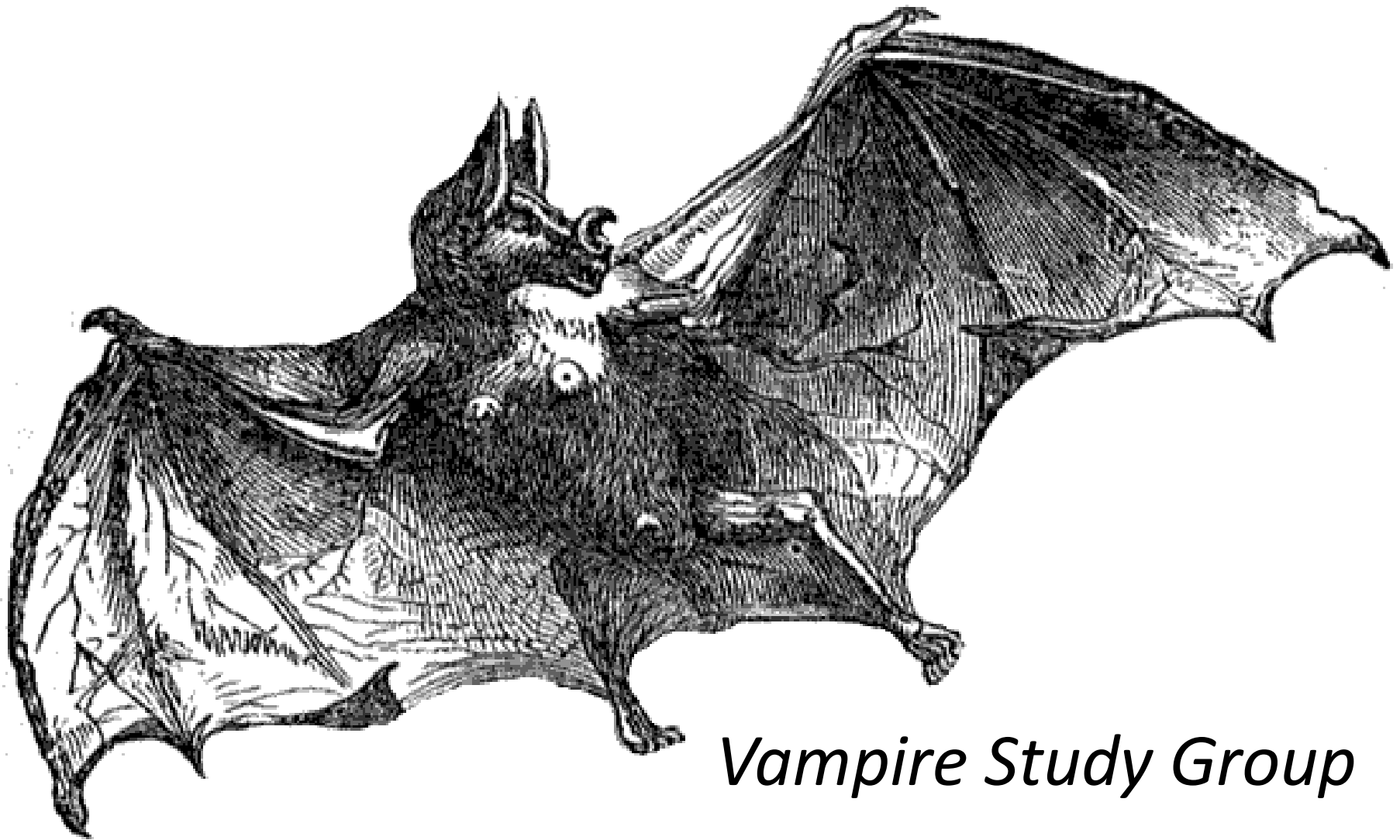


Mike Wilber, night watchman





symbiotica
BIOLOGICAL ARTS



Vampire Study Group

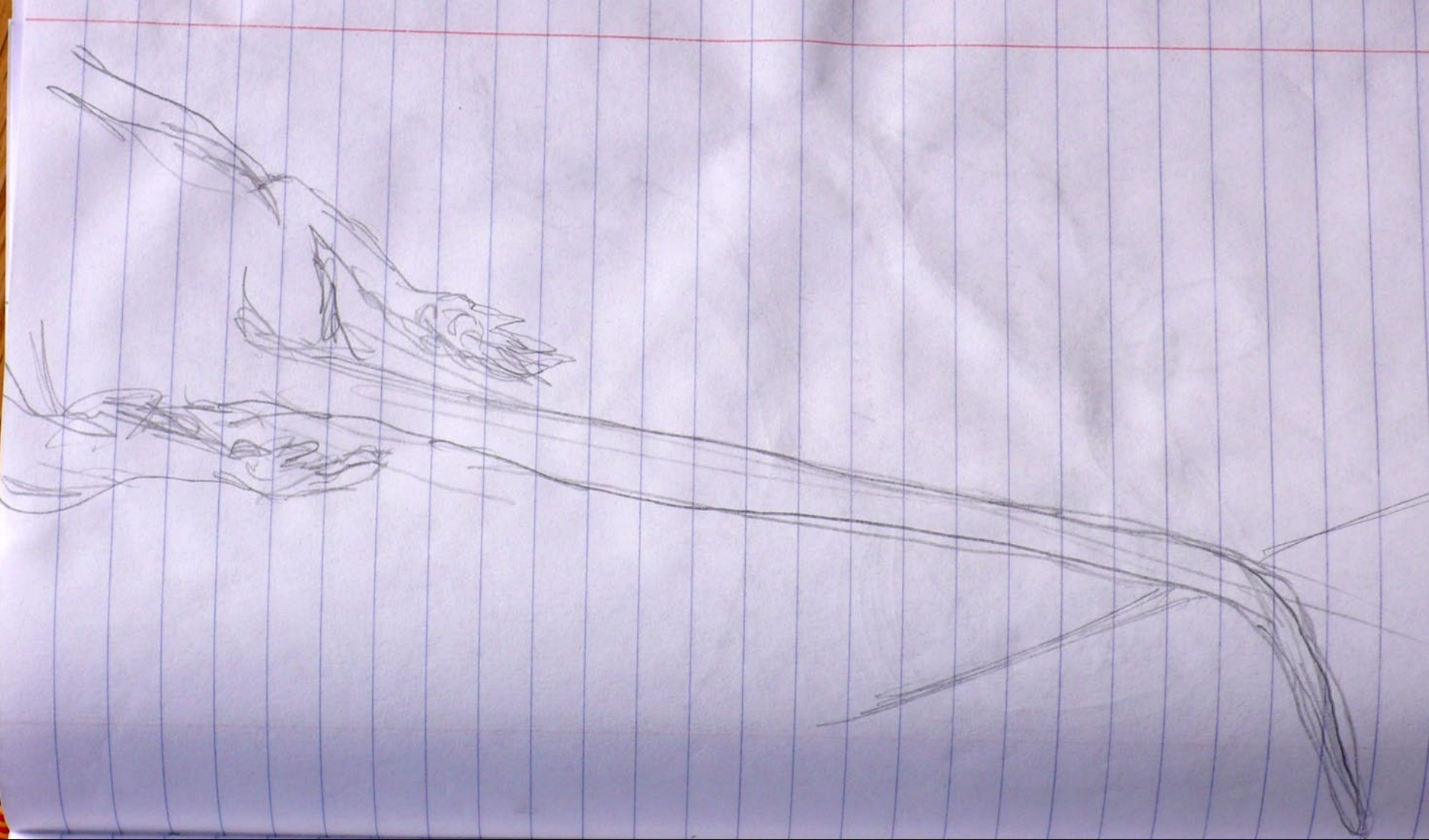
Research-based speculative fictions dealing with themes of life, death, and biotechnology

...Crafted through the ordinary practices
that make metaphor into material fact,
[OncoMouse's] status as an invention,
who/which remains a living animal is what
makes her a vampire, subsiding in the
realms of the undead.

Donna J. Haraway._Modest_Witness@Second_Millennium.

Rat Laughter





Rat laughter/tickling rats

<http://www.youtube.com/watch?v=j-admRGFVNM>





Bat Detector + Giggling Rat

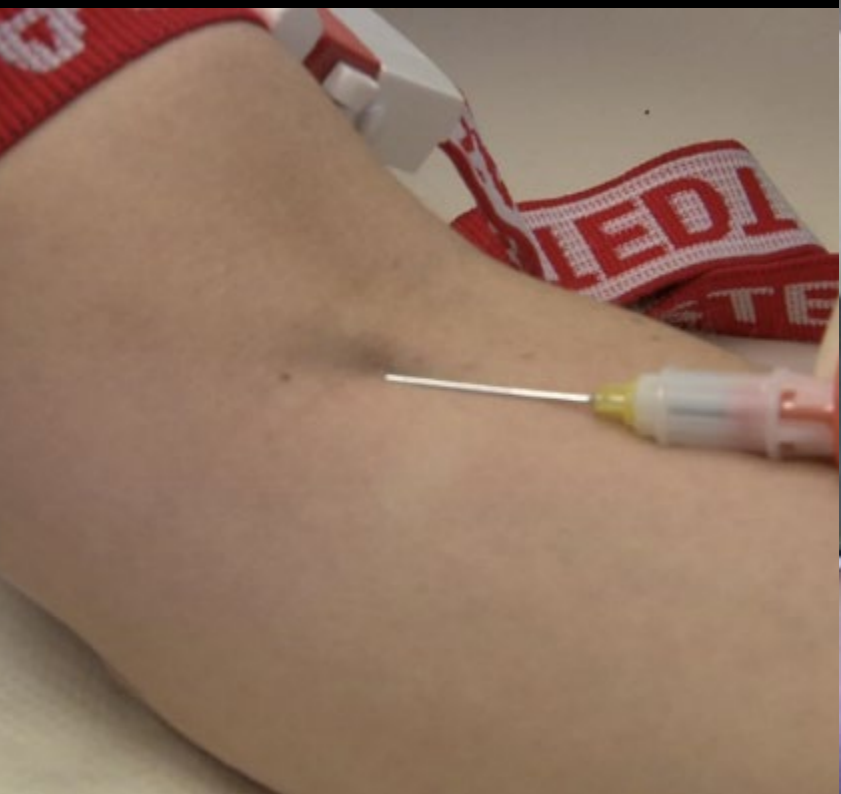




hahahahahahahahahahahahaaa







tournament home



Blood Wars

About

Protocols

Tournaments

Blood Stories

5

Tournament Australia: Lorem Ipsum Dolor

The Games

Match 10

Match 20

Match 60

Match 70

Semi-Finals 30

Semi-Finals 80

Final Match

The Players

10A

10B

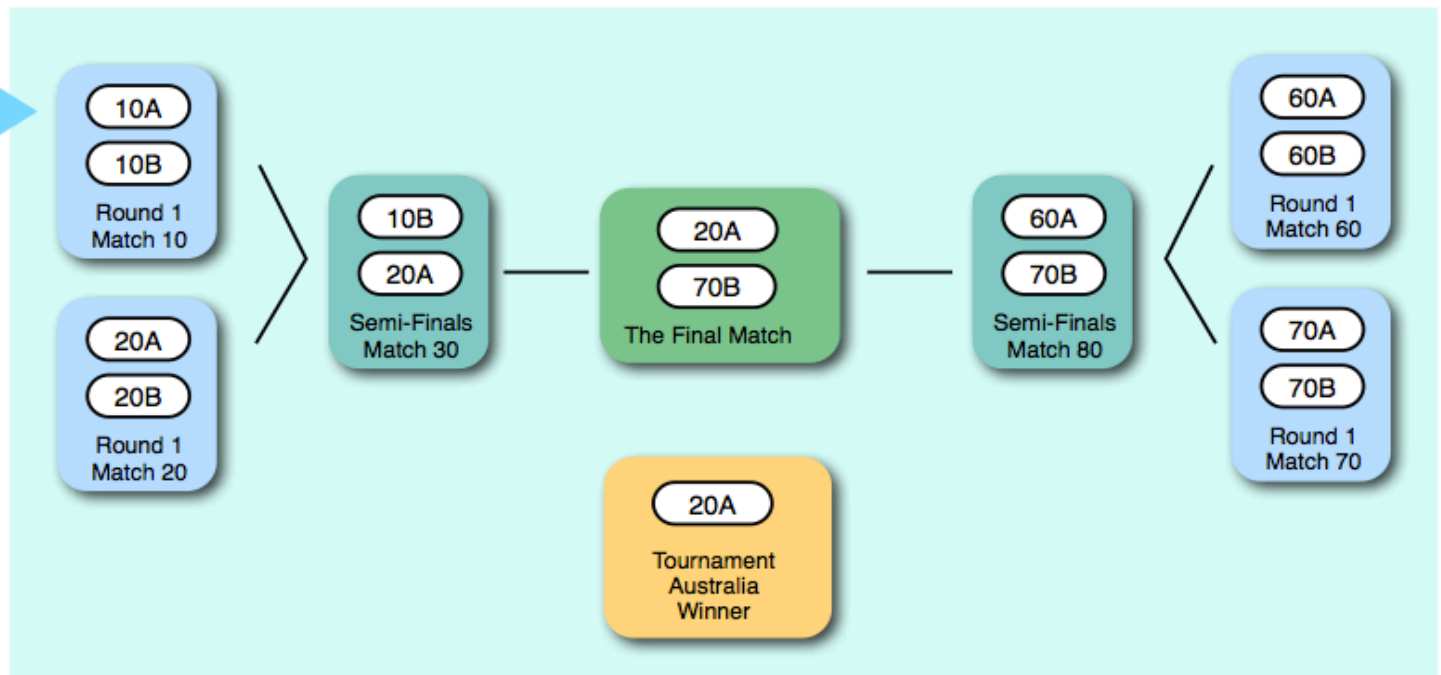
20A

20B

60A

60B

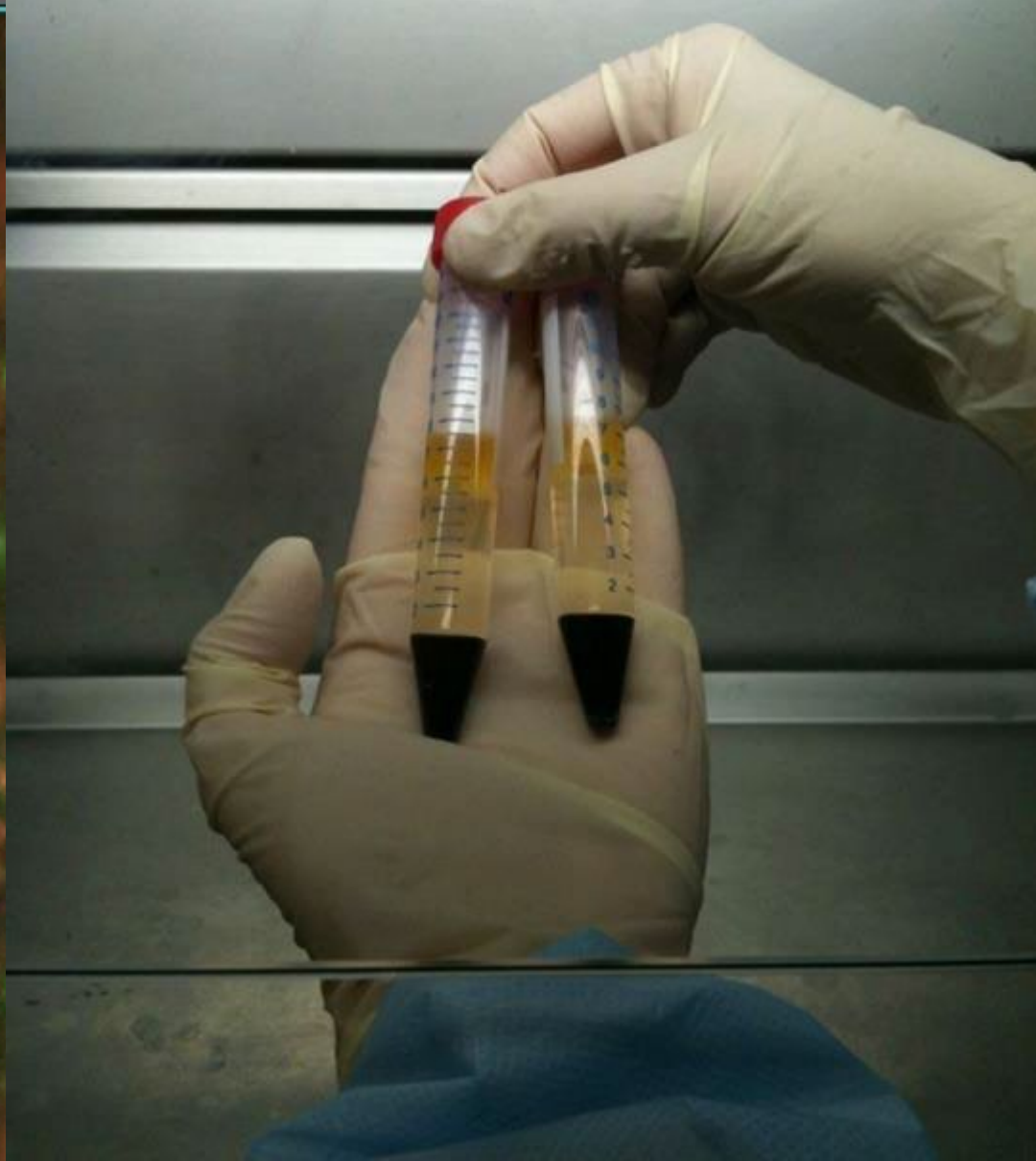
3

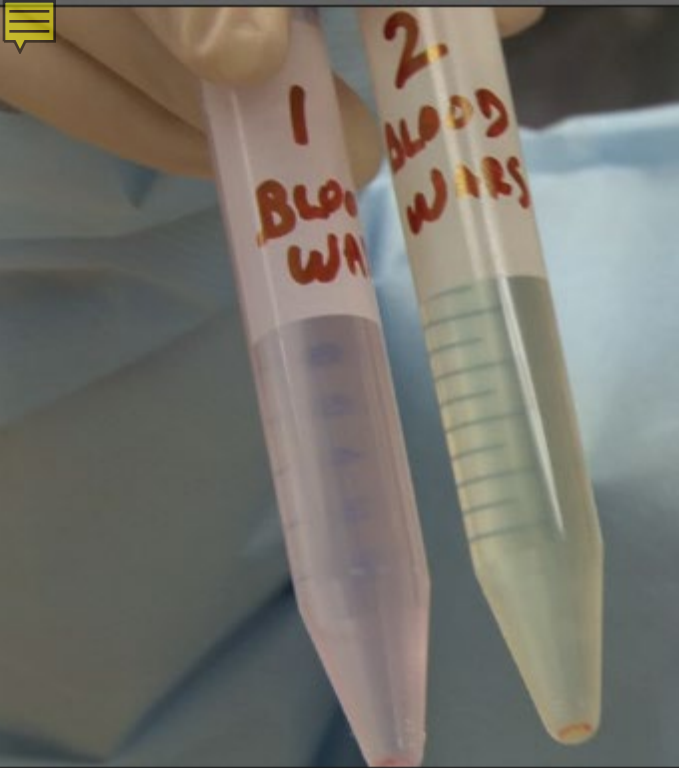


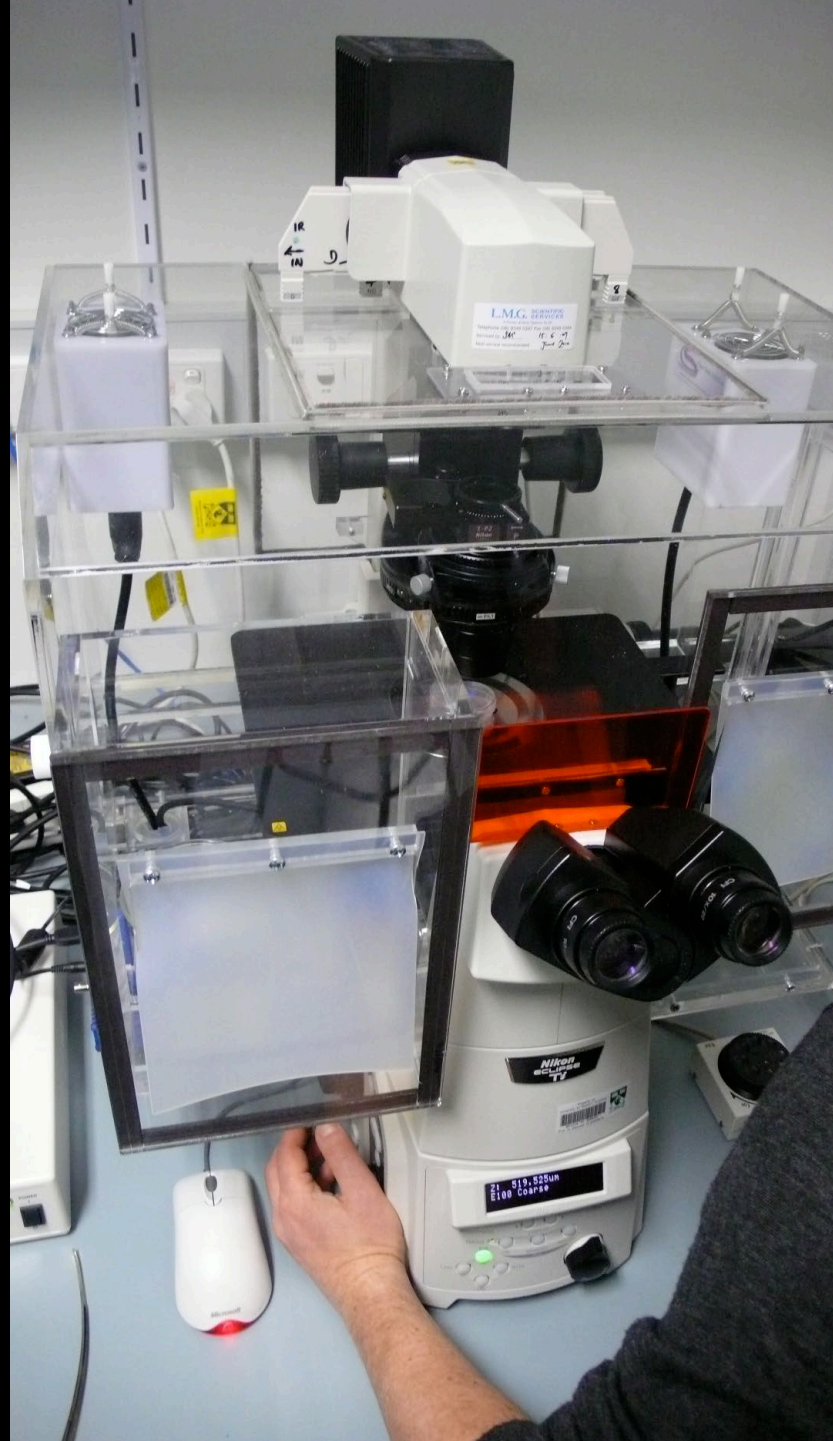
Blood Wars tournament map tracking various matches



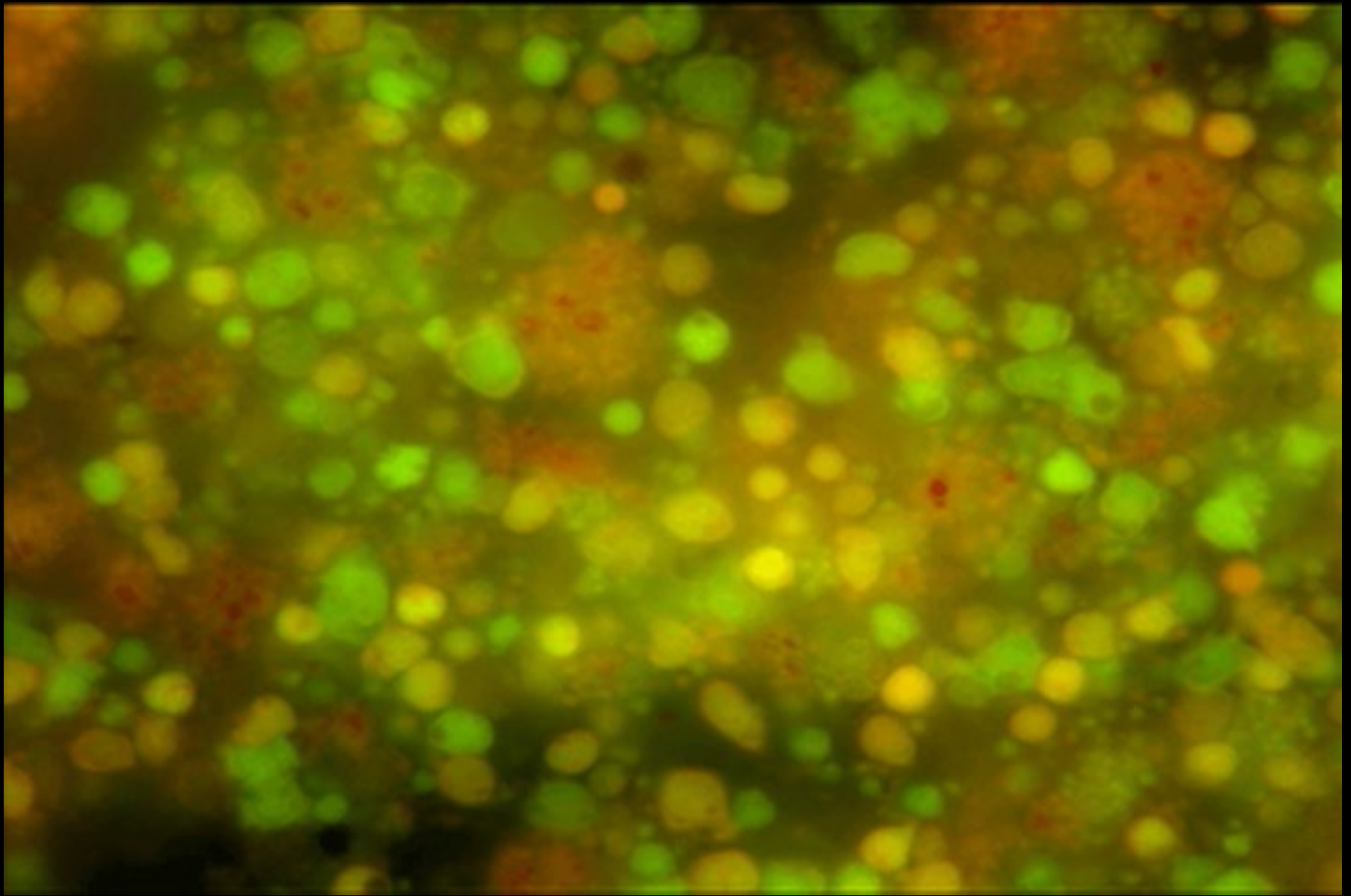








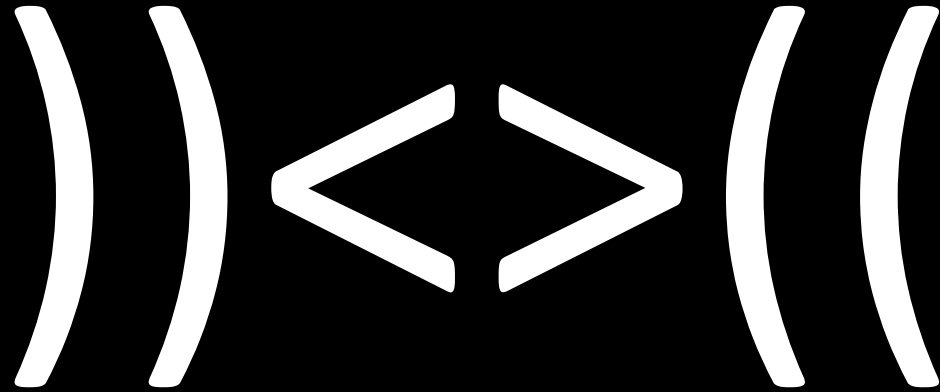




Blood Wars, Kathy High, 2010-ongoing – white blood cell wars movies



Fecal Matters – Gut Micro-Biome



You poop into my butt hole and I poop into
your butt hole ... back and forth ...
forever." - Robby (age 6)

Miranda Julie's film *Me, You, and Everyone We Know*, 2006









www.embracinganimal.com

[www.vampire studygroup.com](http://www.vampirestudygroup.com)

www.kathyhigh.com

<http://www.symbiotica.uwa.edu.au/>

